SEQUENCE LISTING

- (I) GENERAL INFORMATION
- (i) APPLICANT: Hillman, Jennifer L. Goli, Surya K.
- (ii) TITLE OF THE INVENTION: NOVEL HUMAN MEMBRANE PROTEIN
- (iii) NUMBER OF SEQUENCES: 7
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Incyte Pharmaceuticals, Inc.
 - (B) STREET: 3174 Porter Drive
 - (C) CITY: Palo Alto
 - (D) STATE: CA
 - (E) COUNTRY: USA
 - (F) ZIP: 94304
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette

 - (B) COMPUTER: IBM Compatible
 (C) OPERATING SYSTEM: DOS
 (D) SOFTWARE: FastSEQ for Windows Version 2.0
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: To Be Assigned
 - (B) FILING DATE: Herewith
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
- (viii) ATTORNEY/AGENT INFORMATION:

 - (A) NAME: Billings, Lucy J.
 (B) REGISTRATION NUMBER: 36,749
 - (C) REFERENCE/DOCKET NUMBER: PF-0181 US
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 415-855-0555
 - (B) TELEFAX: 415-845-4166
 - (C) TELEX:
 - (2) INFORMATION FOR SEQ ID NO:1:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 356 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: Consensus
 - (B) CLONE: Consensus
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

```
Met Leu Ala Arg Ala Ala Arg Gly His Trp Gly Pro Phe Ala Glu Gly
                                     1.0
Leu Ser Thr Gly Phe Trp Pro Arg Ser Gly Arg Ala Ser Ser Gly Leu
            20
                                 25
                                                     30
Pro Arg Asn Thr Val Val Leu Phe Val Pro Gln Gln Glu Ala Trp Val
                             40
Val Glu Arg Met Gly Arg Phe His Arg Ile Leu Glu Pro Gly Leu Asn
                        55
                                             60
Ile Leu Ile Pro Val Leu Asp Arg Ile Arg Tyr Val Gln Ser Leu Lys
                    7.0
                                         7.5
Glu Ile Val Ile Asn Val Pro Glu Gln Ser Ala Val Thr Leu Asp Asn
                85
                                     90
                                                         95
Val Thr Leu Gln Ile Asp Gly Val Leu Tyr Leu Arg Ile Met Asp Pro
            100
                                105
                                                     110
Tyr Lys Ala Ser Tyr Gly Val Glu Asp Pro Glu Tyr Ala Val Thr Gln
        115
                            120
Leu Ala Gln Thr Thr Met Arg Ser Glu Leu Gly Lys Leu Ser Xaa Asp
                        135
                                             140
Lys Val Phe Arg Glu Arg Glu Ser Leu Asn Ala Ser Ile Val Asp Ala
145
                    150
                                         155
Ile Asn Gln Ala Ala Asp Cys Trp Gly Ile Arg Cys Leu Arg Tyr Glu
                                    170
                165
                                                         175
Ile Lys Asp Ile His Val Pro Pro Arg Val Lys Glu Ser Met Gln Met
                            185
            180
Gln Val Glu Ala Glu Arg Arg Lys Arg Ala Thr Val Leu Glu Ser Glu
        195
                            200
                                                 205
Gly Thr Arg Glu Ser Ala Ile Asn Val Ala Glu Gly Lys Lys Gln Ala
                        215
                                             220
Gln Ile Leu Ala Ser Glu Ala Glu Lys Ala Glu Gln Ile Asn Gln Ala
                    230
                                        235
Ala Gly Glu Ala Ser Ala Val Leu Ala Lys Ala Lys Ala Lys Ala Glu
                245
                                    250
                                                         255
Ala Ile Arg Ile Leu Ala Ala Ala Leu Thr Gln His Asn Gly Asp Ala
           260
                                265
                                                     270
Ala Ala Ser Leu Thr Val Ala Glu Gln Tyr Val Ser Ala Phe Ser Lys
       275
                            280
                                                285
Leu Ala Lys Asp Ser Asn Thr Ile Leu Leu Pro Ser Asn Pro Gly Asp
    290
                        295
                                             300
Val Thr Ser Met Val Ala Gln Ala Met Gly Val Tyr Gly Ala Leu Thr
                    310
                                        315
Lys Ala Pro Val Pro Gly Thr Pro Asp Ser Leu Ser Ser Gly Ser Ser
                325
                                    330
                                                         335
Arg Asp Val Gln Gly Thr Asp Ala Ser Xaa Asp Glu Glu Leu Asp Arg
           340
                                345
Val Lys Met Ser
       355
```

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1188 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: Consensus
 - (B) CLONE: Consensus
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

GGCTTCTGGG AGCNACCGC	CCGCTCGTCT	CGTTGGTTCC	GGAGGTCGCT	GCGGCGGTGG	60
GAAATGCTGG CGCGCGCGG	GCGGGGGCAC		TTGCTGAGGG		
GGCTTCTGGC CGCGCTCCG		TOTGGATTGC			120
TTCGTGCCGC AGCAGGAGG			CCCGAAACAC		130
GAGCCTGGTT TGAACATCC	4100010010		GCCGATTCCA	CCGGATCCTG	240
AAGGAAATTG TCATCAACG	************		TCCGATATGT	GCAGAGTCTC	300
	CHOCHO	TCGGCTGTGA	CTCTCGACAA	TGTAACTCTG	360
CAAATCGATG GAGTCCTTT		ATGGACCCTT	ACAAGGCAAG	CTACGGTGTG	420
GAGGACCCTG AGTATGCCG			CCATGAGATC	AGAGCTCGGC	480
AAACTCTCTN TGGACAAAGT	4-100000.77	CGGGAGTCCC	TGAATGCCAG	CATTGTGGAT	540
GCCATCAACC AAGCTGCTG	CTGCTGGGGT	ATCCGCTGCC	TNCGTTATGA	GATCAAGGAT	600
ATCCATGTGC CACCCGGGT	GAAAGAGTCT	ATGCAGATGC	AGGTGGAGGC	AGAGCGGCGG	660
AAACGGGCCA CAGTTCTAGA	GTCTGAGGG	ACCCGAGAGT	CGGCCATCAA	TGTGGCAGAA	
GGGAAGAAAC AGGCCCAGAT		GAAGCAGAAA	AGGCTGAACA	GATAAATCAG	720
GCAGCAGGAG AGGCCAGTGC		AAGGCCAAGG	CTAAAGCTGA		780
ATCCTGGCTG CAGCTCTGAC				AGCTATTCGA	840
GAGCAGTATG TCAGCGCGTT		GGAGATGCAG	CAGCTTCACT	GACTGTGGCC	900
		GCCAAGGACT	CCAACACTAT	CCTACTGCCC	960
		GCTCAGGCCA	TGGGTGTATA	TGGAGCCCTC	1020
ACCAAAGCCC CAGTGCCAGG		TCACTCTCCA	GTGGGAGCAG	CAGAGATGTC	1080
CAGGGTACAG ATGCAAGTNT	TGATGAGGAA	CTTGATCGAG	TCAAGATGAG	TTAGTGGAGC	1140
TGGGCTTNGC CAGGGAGTCT	GGGGACAAGG	AAGCAGATTT	TCCTGATT		1188

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 288 amino acids(B) TYPE: amino acid

 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: Genbank(B) CLONE: 31069

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

1				5					10				_	15	Pro
Asp	Ser	Phe	Lys 20	Asp	Ser	Pro	Ser	Lys 25	Gly	Leu	Gly	Pro	Cys 30	Gly	Trp
Ile	Leu	Val 35	Ala	Phe	Ser	Phe	Leu 40	Phe	Thr	Val	Ile	Thr	Phe	Pro	Ile
Ser	Ile 50	Trp	Met	Cys	Ile	Lys 55	Ile	Ile	Lys	Glu	Tyr 60	Glu	Arg	Ala	Ile
Ile 65	Phe	Arg	Leu	Gly	Arg 70	Ile	Leu	Gln	Gly	Gly 75	Ala	Lys	Gly	Pro	Gly 80
Leu	Phe	Phe	Ile	Leu 85	Pro	Cys	Thr	Asp	Ser 90	Phe	Ile	Lys	Val	Asp 95	Met
Arg	Thr	Ile	Ser 100	Phe	Asp	Ile	Pro	Pro 105	Gln	Glu	Ile	Leu	Thr 110	Lys	Asp
Ser	Val	Thr 115	Ile	Ser	Val	Asp	Gly 120	Val	Val	Tyr	Tyr	Arg 125	Val	Gln	Asn
Ala	Thr 130	Leu	Ala	Val	Ala	Asn 135	Ile	Thr	Asn	Ala	Asp		Ala	Thr	Arg
Leu 145	Leu	Ala	Gln	Thr	Thr 150	Leu	Arg	Asn	Val	Leu 155		Thr	Lys	Asn	Leu 160
Ser	Gln	Ile	Leu	Ser 165	Asp	Arg	Glu	Glu	Ile 170		His	Asn	Met	Gln 175	Ser
Thr	Leu	Asp	Asp 180	Ala	Thr	Asp	Ala	Trp 185		Ile	Lys	Val	Glu 190		Val
Glu	Ile	Lys 195	Asp	Val	Lys	Leu	Pro 200		Gln	Leu	Gln	Arg 205	Ala	Met	Ala

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(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 280 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (A) LIBRARY: GenBank
- (B) CLONE: 1065452

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Met Asn Leu Lys Thr Cys Ser Leu Ser Thr His Ser Phe Leu Gln Lys 10 Lys Asn Glu Lys His Asp Gly Asn Pro Glu His Tyr Asp Thr Gly Leu 25 Gly Phe Cys Gly Trp Phe Leu Met Gly Leu Ser Trp Ile Met Val Ile 35 40 Ser Thr Phe Pro Val Ser Ile Tyr Phe Cys Met Lys Val Val Gln Glu 55 Tyr Glu Arg Ala Val Ile Phe Arg Leu Gly Arg Leu Ile Gly Gly 70 75 Ala Lys Gly Pro Gly Ile Phe Phe Val Leu Pro Cys Ile Glu Ser Tyr 85 90 Thr Lys Val Asp Leu Arg Thr Val Ser Phe Ser Val Pro Pro Gln Glu 100 105 110 Ile Leu Thr Lys Asp Ser Val Thr Thr Ser Val Asp Ala Val Ile Tyr 115 120 Tyr Arg Ile Ser Asn Ala Thr Val Ser Val Ala Asn Val Glu Asn Ala 130 135 140 His His Ser Thr Arg Leu Leu Ala Gln Thr Thr Leu Arg Asn Met Leu 150 155 Gly Thr Arg Ser Leu Ser Glu Ile Leu Ser Asp Arg Glu Thr Leu Ala 165 170 175 Ala Ser Met Gln Thr Ile Leu Asp Glu Ala Thr Glu Ser Trp Gly Ile 180 185 190 Lys Val Glu Arg Val Glu Ile Lys Asp Val Arg Leu Pro Ile Gln Leu 195 200 205 Gln Arg Ala Met Ala Ala Glu Ala Glu Ala Thr Arg Glu Ala Arg Ala 210 215 220 Lys Val Ile Ala Ala Glu Gly Glu Gln Lys Ala Ser Arg Ala Leu Arg 230 235 Asp Ala Ala Ser Val Ile Ala Gln Ser Pro Ala Ala Leu Gln Leu Arg 245 250 Tyr Leu Gln Thr Leu Asn Ser Val Ala Arg Glu Lys Phe Asp Asp His 260 265 Leu Pro Thr Ser Asp Gly Ile Ser 275

- (2) INFORMATION FOR SEQ ID NO:5:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 415 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: GenBank
 - (B) CLONE: 1353669
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Met Glu Tyr Gly Met Pro Glu Gly Ser Tyr Asp Ser Val Phe Thr Tyr Ala Pro Tyr Asn Asp Leu Asp Lys Met Gly Tyr Met Gly Pro Ala Arg 25 Gin Gly Met Met Leu Gly Asn Lys Tyr Gly Asn Phe Thr Tyr Thr Arg 35 40 Asp Tyr Gly Val Asn Met Glu Asp Asp Ile Lys Pro Leu Ser Ala Ile 50 60 Glu Leu Leu Ile Phe Cys Val Ser Phe Leu Phe Val Val Met Thr Met 70 75 Pro Leu Ser Leu Leu Phe Ala Leu Lys Phe Ile Ser Thr Ser Glu Lys 85 90 Leu Val Val Leu Arg Leu Gly Arg Ala Gln Lys Thr Arg Gly Pro Gly 100 105 110 Ile Thr Leu Val Ile Pro Cys Ile Asp Thr Thr His Lys Val Thr Met 115 120 125 Ser Ile Thr Ala Phe Asn Val Pro Pro Leu Gln Ile Ile Thr Thr Asp 135 140 Arg Gly Leu Val Glu Leu Gly Ala Thr Val Phe Leu Lys Ile Arg Asp 150 155 Pro Ile Ala Ala Val Cys Gly Val Gln Asp Arg Asn Ala Ser Val Arg 165 170 Thr Leu Ala Asn Thr Met Leu Tyr Arg Tyr Ile Ser Lys Lys Arg Ile 180 185 190 Cys Asp Val Thr Ser Ser Gln Asp Arg Arg Ile Ile Ser Ala Asn Leu 195 200 205 Lys Asp Glu Leu Gly Ser Phe Thr Cys Gln Phe Gly Val Glu Ile Thr 215 220 Asp Val Glu Ile Ser Asp Val Lys Ile Val Lys Glu Gly Glu Asn Met 230 235 Gly Met Ser Ala Leu Ser Ser Val Ala Lys Ser Asp Ala Gly Gln Gln 245 250 255 Leu Trp Gln Val Ile Gly Pro Val Phe Glu Asp Phe Ala Lys Glu Cys 260 265 Ala Ala Glu Glu Lys Ala Lys Glu Asn Ala Pro Leu Val Asp Leu Ser 285 280 Asp Val Pro Ser Thr Ser Ala Ala Gly Thr Ser Thr Asp Thr Pro Asn 295 Ile Pro Ser Ile Asp Ile Asp His Leu Ile Ser Val Ala Ser Leu Ala 310 315 Met Asp Glu His Leu Val Arg Leu Ile Gly Arg Val Phe Gln Ile Asn 330 Cys Lys Asp Ile Glu Pro Ile Cys Ile Asp Leu Lys His Gly Ser Gly 340 345 350 Ser Ala Tyr Lys Gly Thr Ser Leu Asn Pro Asp Val Val Phe Glu Thr 360 365 Ser Leu Glu Val Phe Gly Lys Ile Leu Thr Lys Glu Val Ser Pro Val

370

Thr Val Tyr Met Asn Gly Asn Leu Lys Val Lys Gly Ser Ile Gln Asp 385

Ala Met Gln Leu Lys His Leu Val Glu Arg Met Ser Asp Trp Leu 405

400

(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 381 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: Owl
 - (B) CLONE: 79701

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Ţ				5					10					15	Ile
			20					25					30	Gln	Ala
		35					40					45	Thr		
	50			•		55.					60				Arg
כס					70					75			Pro		90
				85					90				Tyr	95	Gln
			100					105					Tyr 110		Val
		TID					120					125	Val		
Met	130					135					140		Asn		
145					150					155			Leu		160
				165					170				Ile	175	
			180					185					Ala 190		
		195					200					205	Ala		_
-	210					215		_			220		Gln		
225					230					235			Arg		240
				245					250				Ala	255	
			260					265					Thr 270		
		275					280					285	Ala		_
	290					295					300		Ala		
305					310					315			Gly		320
Arg	rne	GIU	Pro	Ser	Pro	Val	Glu	Asp	Gln	Pro	Lys	His	Ala	Ala	Asp

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(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 199 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: GenBank
 - (B) CLONE: 1591514

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Met Lys Val Asn Asp Met Phe Trp Phe Trp Leu Ile Leu Gly Ile Ile 10 Ala Leu Phe Ile Ile Val Lys Ala Ile Val Ile Val Asn Gln Tyr Glu 20 25 30 Gly Gly Leu Ile Phe Arg Leu Gly Arg Val Ile Gly Lys Leu Lys Pro 35 40 Gly Ile Asn Ile Ile Ile Pro Phe Leu Asp Val Pro Val Lys Val Asp 55 Met Arg Thr Arg Val Thr Asp Ile Pro Pro Gln Glu Met Ile Thr Lys 70 75 Asp Asn Ala Val Val Lys Val Asp Ala Val Val Tyr Tyr Arg Val Ile 85 90 Asp Val Glu Lys Ala Ile Leu Glu Val Glu Asp Tyr Glu Tyr Ala Ile 100 105 110 Ile Asn Leu Ala Gln Thr Thr Leu Arg Ala Ile Ile Gly Ser Met Glu 120 125 Leu Asp Glu Val Leu Asn Lys Arg Glu Tyr Ile Asn Ser Lys Leu Leu 130 135 140 Glu Ile Leu Asp Arg Glu Thr Asp Ala Trp Gly Val Arg Ile Glu Lys 150 155 Val Glu Val Lys Glu Ile Asp Pro Pro Glu Asp Ile Lys Asn Ala Met 165 170 175 Ala Gln Gln Met Lys Ala Glu Arg Leu Lys Arg Ala Ala Ile Leu Glu 180 185 190 Ala Glu Gly Glu Lys Pro Glu 195